

DC-DC Long Stroke LVDTs

Models DLB, DLE and DLF

LOW VOLTAGE REQUIREMENTS

EASY TO OPERATE

STAINLESS STEEL

REVERSE POLARITY PROTECTED



Model DLB Free Unguided



Model DLF Captive Guided Spring Return



Model DLE Captive Guided Armature



SENSOTEC'S Model DLB (free unguided), DLE (captive guided armature) and DLF (captive guided spring return) operate from either +5 VDC regulated or +6 to +18 VDC unregulated and generate an output signal of ± 2 VDC. The output signal is electrically isolated from the input voltage and can be used with digital panel meters to form a complete readout system. The DLB, free unguided is available with stroke ranges of 0.5" to 8.0". the DLE, captive guided armature has stroke ranges of 0.5" to 18.5" and the DLF, captive guided spring return from 0.5" to 3.0".

PERFORMANCE

ENVIRONMENTAL

ELECTRICAL

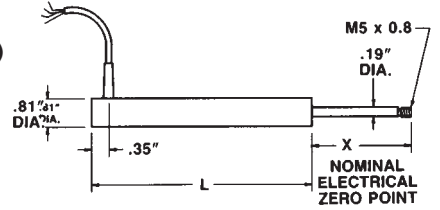
MECHANICAL

	Model DLB Order Code BY127	Model DLF Order Code BY129	Model DLE Order Code BY128
Stroke Ranges (Model DLB)		$\pm 0.5"$ to 8"	
(Model DLF)		$\pm 0.5"$ to 3"	
(Model DLE)		$\pm 0.5"$ to 18.5"	
Non-linearity (max)		$\pm 0.25\%$ F.S.	
Output sensitivity		± 2 VDC F.S.	
Resolution		Infinite	
Temperature, Operating		-58° F to 158° F	
Temperature Effect			
-Zero (max)006% F.S./°F	
-Span (max)017% Rdg./°F	
Element type		DC-DC LVDT	
Input supply		+6V to +18VDC unregulated or 5V regulated	
Output impedance		2 ohms	
Output load (min)		2K ohms	
Output ripple		30mv peak to peak	
Reverse polarity protection		Yes	
Wiring Code (std)		#35	
Electrical termination		Multiconductor shielded cable (6 ft.)	
Case material		Stainless steel	
Probe material		Stainless steel	
Armature type (Model DLB)		Free Unguided	
(Model DLF)		Captive Guided Spring Return	
(Model DLE)		Captive Guided	
Probe thread		M5 x 0.8	
Spring force (max)		4 ozs./in. (DLF Only)	

Dimensions

Model DLB (Order Code BY127)

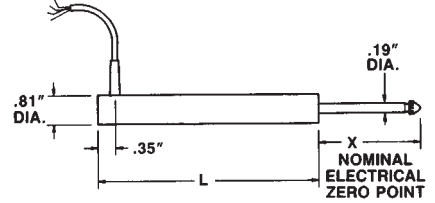
Order Code W/Range	Available Stroke Ranges	L"	X"	Approx. Weights (ozs.)	
				Body	Armature
BY127HP	±0.5"	6.9	1.7	7.5	1.0
BY127HQ	±1.0"	7.9	2.7	9.5	2.0
BY127HR	±2.0"	12.5	3.2	13.0	2.5
BY127HS	±3.0"	16.9	4.7	17.5	3.0
BY127HT	±4.0"	18.6	5.2	22.0	3.5
BY127HU	±6.0"	26.1	7.2	30.0	4.0
BY127HV	±8.0"	33.6	10.2	44.0	5.0



Model DLB Free Unguided

Model DLF (Order Code BY129)

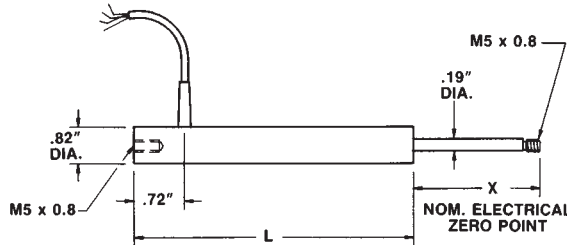
Order Code W/Range	Available Stroke Ranges	L"	X"	Approx. Unit Weights (ozs.)	
				BY129HP	±0.5"
BY129HQ	±1.0"	8.25	2.5	10.0	
BY129HR	±2.0"	12.85	3.0	14.0	
BY129HS	±3.0"	17.25	4.5	18.0	



Model DLF Captive Guided Spring Return

Model DLE (Order Code BY128)

Order Code W/Range	Available Stroke Ranges	L"	X"	Approx. Unit Weights (ozs.)	
				BY128HP	±0.5"
BY128HQ	±1.0"	8.5	2.5	14.0	
BY128HR	±2.0"	13.1	3.0	18.0	
BY128HS	±3.0"	17.5	4.5	22.0	
BY128HT	±4.0"	19.3	5.0	27.0	
BY128HU	±6.0"	26.8	7.0	36.0	
BY128HV	±8.0"	34.3	10.0	51.0	
BY128HW	±10.0"	42.0	12.0	59.0	
BY128HY	±15.0"	58.0	16.0	78.0	
BY128HZ	±18.5"	68.5	20.0	92.0	



Model DLE Captive Guided Armature

General Information

How to order (See Pg. AP-19)
LVDT selection flow chart (See Pg. LV-1)

DISPLACEMENT
LONG STROKE

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传真：0755-83376182 (0) 13902971329 MSN: SUNS8888@hotmail.com

邮编：518033 E-mail:szss20@163.com QQ: 195847376

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TEL: 021-28311762 56703037 13701955389 FAX: 021-56703037

西安分公司：西安高新开发区 20 所(中国电子科技集团导航技术研究所)

西安劳动南路 88 号电子商城二楼 D23 号

TEL: 029-81022619 13072977981 FAX:029-88789382